Overview

HP EliteBook 735 G5

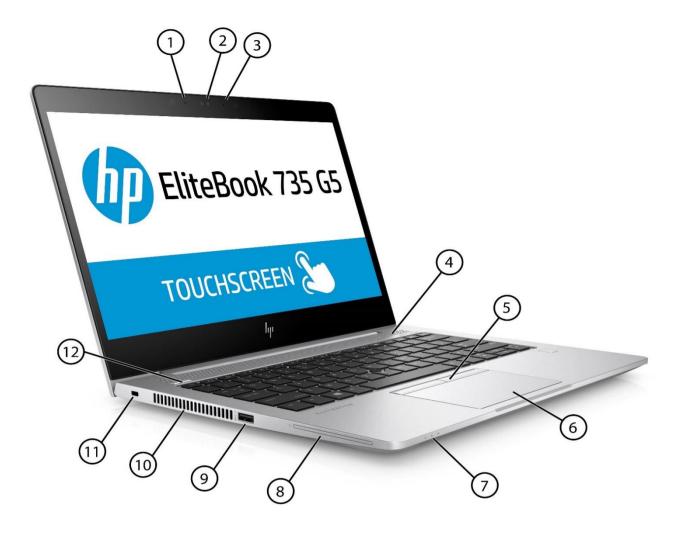


- 1. Power connector
- 2. USB Type-C™
- 3. Docking connector
- 4. Ethernet port

Left

- 5. HDMI port (Cable not included)
- 6. USB 3.1 Gen 1 port
- 7. Audio combo jack
- 8. SIM card slot

Overview



- 1. Internal microphones
- 2. Webcam
- 3. Internal microphones
- 4. Speaker grill
- 5. Click button
- 6. Clickpad

Right

- 7. Indicator LEDs (Power, Wireless, and Storage usage light)
- 8. Smartcard Reader (Select models)
- 9. USB 3.1 Gen 1 charging port
- 10. Vent
- 11. Security lock slot (Lock sold separately)
- 12. Power button

Overview

AT A GLANCE

- Eye-catching ultraslim design, premium precision-crafted machined aluminum (CNC), seamless formed aluminum chassis for clean, crisp, premium look and feel
- AMD Ryzen PRO processor
- Designed to support all HP docking options including HP's traditional Ultraslim mechanical dock and the all-new Thunderbolt™ dock
- Featuring HP Collaboration Keyboard with Clickpad to manage most commonly used conferencing functions with a single keystroke
- Innovative world-facing third mic improves inbound ambient noise cancellation while 360 degree mic pick-up allows everyone to clearly hear and be heard
- Optional ultrabright displays with ambient light sensor
- Enterprise grade security with HP SureStart, HP Privacy Camera, HP Sure View, HP Sure Run, HP Sure Recover, HP WorkWise, SmartCard Reader and Fingerprint reader
- Choice of displays:
- 33.7cm (13.3") diagonal FHD UWVA anti-glare LED-backlit, 220 cd/m², 45% sRGB
- 33.7cm (13.3") diagonal FHD UWVA anti-glare LED-backlit, 400 cd/m², 72% sRGB
- Flexible wireless connectivity options
- Preinstalled with Windows 10 versions or FreeDOS 2.0
- Choice of solid state drives up to 512 GB and DDR4 memory up to 32 GB
- Supports fast charging (50% in 30 minutes) with no impact on battery recharge cycles¹
- Optional HD camera or Infra Red camera with multi-array microphone
- Battery life up to 12 hours
- Pending MIL-STD testing²
- 1. Recharges your battery up to 50% within 30 minutes when the system is off or in standby mode. Power adapter with a minimum capacity of 65 watts is required. After charging has reached 50% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance.
- 2. MIL STD 810G testing is not intended to demonstrate fitness for Department of Defense contracts requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Any accidental damage requires an optional HP Accidental Damage Protection Care Pack.

NOTE: See important legal disclosures for all listed specs in their respective features sections.



Features

PRODUCT NAME

HP EliteBook 735 G5

OPERATING SYSTEM

Preinstalled Windows 10 Pro 64¹

Windows 10 Pro 64 (National Academic only)1,2

Windows 10 Home 641

Windows 10 Home Single Language 641

FreeDOS 2.0

1. Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com/

2. Some devices for academic use will automatically be updated to Windows 10 Pro Education with the Windows 10 Anniversary Update. Features vary; see https://aka.ms/ProEducation for Windows 10 Pro Education feature information.

PROCESSORS

AMD Ryzen[™] 7 2700U APU with Radeon[™] Vega Graphics (2.2 GHz base frequency, up to 3.8 GHz burst frequency, 6 MB cache, 4 cores)^{3,4,5}

AMD Ryzen[™] 5 2500U APU with Radeon[™] Vega Graphics (2 GHz base frequency, up to 3.6 GHz burst frequency, 6 MB cache, 4 cores)^{3,4,5}

AMD Ryzen™ 3 2300U APU with Radeon™ Vega Graphics (2 GHz base frequency, up to 3.4 GHz burst frequency, 6 MB cache, 4 cores)^{3,4,5}

Processor Family

AMD® Ryzen™ APU processor⁵

- 3. Multi-core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. AMD's numbering is not a measurement of clock speed.
- 4. Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.
- 5. NOTE: In accordance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 operating system on products configured with Intel and AMD 7th generation and forward processors or provide any Windows 8 or Windows 7 drivers on http://www.support.hp.com.

CHIPSET

Chipset is integrated with processor

GRAPHICS

Integrated

AMD Radeon™ Vega Graphics



Features

DISPLAY

Non-Touch

33.8 cm (13.3") diagonal FHD IPS anti-glare LED-backlit, 220 cd/m², 45% sRGB (1920 x 1080)^{6,7,8}

33.8 cm (13.3") diagonal FHD IPS anti-glare LED-backlit, 220 cd/m², 45% sRGB with HD camera (1920 x 1080)^{6,7,8}

33.8 cm (13.3") diagonal FHD IPS anti-glare LED-backlit, 220 cd/m², 45% sRGB with HD IR webcam (1920 x 1080)^{6,7,8}

33.8 cm (13.3") diagonal FHD IPS anti-glare LED-backlit, 220 cd/m², 45% sRGB for WWAN (1920 x 1080)^{6,7,8}

33.8 cm (13.3") diagonal FHD IPS anti-glare LED-backlit, 220 cd/m², 45% sRGB with HD camera for WWAN (1920 x 1080)^{6,7,8}

33.8 cm (13.3") diagonal FHD IPS anti-glare LED-backlit, 220 cd/m2, 45% sRGB with HD IR webcam for WWAN (1920 x 1080)^{6,7,8} 33.8 cm (13.3") diagonal FHD IPS anti-glare LED-backlit, 400 cd/m², 72% sRGB with Ambient Light Sensor and HD IR webcam (1920 x 1080)^{6,7,8}

33.8 cm (13.3") diagonal FHD IPS anti-glare LED-backlit, 400 cd/m 2 , 72% sRGB with Ambient Light Sensor and HD IR webcam for WWAN (1920 x 1080) 6,7,8

Touch

33.8 cm (13.3") diagonal FHD IPS LED-backlit touch screen with Corning® Gorilla® Glass 3, 220 cd/m², 45% sRGB with HD IR webcam (1920 x 1080)^{6,7,8}

33.8 cm (13.3") diagonal FHD IPS LED-backlit touch screen with Corning® Gorilla® Glass 3, 220 cd/m², 45% sRGB with HD IR webcam for WWAN (1920 x 1080)^{6,7,8}

HDMI 1.4b

Supports resolution up to 4k @ 60Hz

Displays support

Docking Station model	Total number of supported displays(incl. the notebook display)	Max.resolutions supported	Dock Connectors	Technical limitations
HP UltraSlim Docking Station	3	Dual 2.5K @ 60Hz	2xDP, 1xVGA	Dual 2.5k only with both displays into DP
HP Elite 120W TB3 Dock	3	Dual 4K @ 60Hz	2xDP, 1xVGA, 1xTB, 1xUSB-C alt-mode	Dual 4k only with one display in to DP and + TB port or USB-C alt mode + TB port
HP Elite USB-C Dock G4	3	Dual 2K @ 60Hz Single 4K @ 60Hz (3840 x 1440)	1xHDMI, 2xDP	
HP USB-C Universal Dock	3	Dual 4K @ 60Hz Single 5K @ 60Hz	2xDP	
HP USB-C Travel Dock	2	Single 2K @ 60Hz	1xHDMI, 1xVGA	Single external display Only HDMI or VGA at the time
HP USB-C Mini Dock	2	Single 4K @ 30Hz	1xHDMI, 1xVGA	Single external display Only HDMI or VGA at the time

^{6.} HD content required to view HD images.



^{7.} Sold separately or as an optional feature.

^{8.} Resolutions are dependent upon monitor capability, and resolution and color depth settings.

Features

STORAGE AND DRIVES

Primary M.2 Storage

128 GB SATA-3 SS TLC⁹
256 GB PCIe NVMe SS⁹
256 GB PCIe Gen3x4 NVMe SS TLC⁹
256 GB SATA-3 SS TLC Opal 2⁹
360 GB PCIe Gen3x4 NVMe SS TLC (Intel)⁹
512 GB PCIe Gen3x4 NVMe SS TLC⁹
512 GB PCIe Gen3x4 NVMe SS TLC Opal 2⁹
512 GB SATA-3 SS TLC FIPS-140-2⁹

9. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10) is reserved for system recovery software.

MEMORY

Maximum Memory

32 GB DDR4-2400 SDRAM10

Memory

32 GB DDR4-2400 SDRAM (2 X 16 GB)¹⁰
16 GB DDR4-2400 SDRAM (1 X 16 GB)¹⁰
16 GB DDR4-2400 SDRAM (2 X 8 GB)¹⁰
8 GB DDR4-2400 SDRAM (1 x 8 GB)¹⁰
8 GB DDR4-2400 SDRAM (2 x 4 GB)¹⁰
4 GB DDR4-2133 SDRAM (1 x 4 GB)¹⁰

Memory Slots

2 SODIMM Both slots are upgradeable System runs at 2400 Supports Dual Channel Memory.

10. Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed.



Features

NETWORKING/COMMUNICATIONS

WLAN

Intel® Dual Band Wireless-AC 8265 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 4.2 Combo, non-vPro™11 Realtek RTL8822BE 802.11ac (2x2) Wi-Fi® and Bluetooth® 4.2 Combo, non-vPro™11

WWAN

HP lt4132 LTE/HSPA+ 4G Mobile Broadband¹² Intel® XMM™ 7360 LTE-Advanced¹²

NFC

NXP NPC300 Near Field Communication Module

Miracast

Support for Miracast¹³

Ethernet

Realtek PCIe GbE Family Controller 10/100/1000¹⁴

- 11. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. The specifications for the 802.11ac WLAN are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ac WLAN devices.

 12. WWAN module requires separately purchased service contract. Check with service provider for coverage and availability in your area. Connection speeds will vary due to location, environment, network conditions, and other factors. 4G LTE not available on all products, in all regions.
- 13. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming 14. The term "10/100/1000" or "Gigabit" Ethernet indicates compatibility with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.

AUDIO/MULTIMEDIA

Audio

Audio by Bang & Olufsen Integrated 3 Multi Array Microphone 2 Integrated Stereo Speakers

Camera

HD camera⁶ HD IR webcam^{6,15}

6 HD content required to view HD images. 15. Internet access required.

Features

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

HP Premium Collaboration Keyboard, spill resistant with drain Backlit keyboard available as an option Dual point, spill resistant with drain

Pointing Device

Clickpad with multi-touch gestures enabled, taps enabled as default Microsoft Precision Touchpad Default Gestures Support

Function Keys

F1 - Display Switching

F2 - Blank or Privacy

F3 - Brightness Down

F4 - Brightness Up

F5 - Audio Mute

F6 - Volume Down

F7 - Volume Up

F8 - Mic Mute

F9 - Blank or Backlit Toggle

F10 - numlk

F11 - Wireless

F12 - Calendar

Share/Present

Call Answer

Call End

Hidden Fuctions

Fn+R = Break

Fn+S = Sys Rq

Fn+C = Scroll Lock

Features

SOFTWARE AND SECURITY

Preinstalled Software

BIOS

HP BIOSphere Gen416

HP DriveLock & Automatic DriveLock

BIOS Update via Network

Master Boot Record Security

Power On Authentication

Secure Erase¹⁷

Absolute Persistence Module¹⁸

Pre-boot Authentication

HP Wireless Wakeup

Software

HP Native Miracast Support¹³

HP LAN-Wireless Protection

HP Velocity

HP ePrint + JetAdvantage19

HP Hotkey Support - CMIT

HP Recovery Manager

HP Jumpstart

HP Support Assistant²⁰

HP Noise Cancellation Software

HP PhoneWise²⁷

Buy Office

Manageability Features

HP Driver Packs²¹

HP System Software Manager (SSM)

HP BIOS Config Utility (BCU)

HP Client Catalog

HP Manageability Integration Kit Gen2²²

Ivanti Management Suite²³

HP Collaboration Keyboard

Client Security Software

HP Client Security Suite Gen4 including:24

HP Security Manager²⁵ (including Credential Manager, HP Password Manager, HP Spare Key)

Power On Authentication

HP Fingerprint Sensor²⁹

HP Device Access Manager

HP Power On Authentication

Microsoft Defender²⁶



Features

Security Management

HP BIOSphere Gen416

HP DriveLock & Automatic DriveLock

BIOS Update via Network

Secure Erase¹⁸

Pre-boot Authentication

TPM 2.0 Embedded Security Chip shipped with Windows 10 (Common Criteria EAL4+ Certified)

SATA 0,1 port disablement (viaBIOS)

RAID configurations³⁰

Serial, USB enable/disable (viaBIOS)

Power-on password (viaBIOS)

Setup password (viaBIOS)

Support for chassis padlocks and cable lock devices

Integrated hood sensor

HP Sure Click³¹

HP Sure Start Gen4²⁸

Security

TPM

Model:

Version:

Revision:

FIPS 140-2 Compliant:

Smartcard Reader Model number:TBD

FIPS 201 Compliant: TBD

IPv6 Certification:

Yes / No

MD5 Hash: Please follow the instructions below to access MD5 Hash.

Log-on to http://hp.com/support, enter your product name, select software and drivers, select OS, select driver. After selecting the driver, click on "Associated files" and then click on "Download". When opening the file, under "Purpose" you should see the appropriate "SOFTPAQ MD5:" Field

Graphics (Intel Video Driver): TBD

WWAN: TBD WLAN: TBD

Is the BIOS on this notebook ISO/IEC 19678:2015 (formerly NIST 800-147) compliant?:

Yes / No

UEFI version:



Features

- 13. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming
- 16. HP BIOSphere Gen4 features may vary depending on the PC platform and configurations. Requires Intel® or AMD 8th generation processors.
- 17. Secure Erase for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88. Supported on Elite platforms with BIOS version F.03 or higher.
- 18. Absolute agent is shipped turned off, and will be activated when customers activate a purchased subscription. Subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. The Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. For full details visit: http://www.absolute.com/company/legal/agreements/computrace-agreement. Data Delete is an optional service provided by Absolute Software. If utilized, the Recovery Guarantee is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either obtain a PIN or purchase one or more RSA SecurID tokens from Absolute Software.
- 19. HP ePrint Drive requires an Internet connection to HP web-enabled printer and HP ePrint account registration (for a list of eligible printers, supported documents and image types and other HP ePrint details, see
- http://www.hp.com/go/eprintcenter). Print times and connection speeds may vary.
- 20. HP Support Assistant requires Windows and Internet access.
- 21. HP Driver Packs not preinstalled, however available for download at http://www.hp.com/go/clientmanagement.
- 22. HP Manageability Integration Kit can be downloaded from
- http://www8.hp.com/us/en/ads/clientmanagement/overview.html
- 23. Ivanti Management Suite subscription required.
- 24. HP Client Security Suite Gen 4 requires Windows and Intel® or AMD 8th generation processors.
- 25. HP Password Manager requires Internet Explorer or Chrome or FireFox. Some websites and applications may not be supported. User may need to enable or allow the add-on / extension in the internet browser.
- 26. Microsoft Defender Opt in and internet connection required for updates.
- 27. HP PhoneWise Client is only available on select platforms. For supported platforms and HP PhoneWise system requirements see http://www.hp.com/go/HPPhoneWise.
- 28. HP Sure Start Gen4 is available on HP Elite products equipped with 8th generation Intel® or AMD processors.
- 29. HP Fingerprint Sensor sold separately or as an optional feature.
- 30. RAID configuration is optional and does require a second hard drive.
- 31. HP Sure Click is available on select HP platforms and supports Microsoft® Internet Explorer and Chromium™. Check http://h20195.www2.hp.com/v2/GetDocument.aspx?docname=4AA7-0922ENW for all compatible platforms as they become available.

Features

POWER

Power Supply

HP Smart 45 W External AC power adapter³²
HP Smart 45 W External AC power adapter, 2-prong (Japan only)³²
HP Smart 65 W External AC power adapter³²
HP Smart 65 W EM External AC power adapter³²
45 W USB Type-C[™] adapter³²
65 W USB Type-C[™] adapter³²

Primary Battery

HP Long Life 3-cell, 50 Wh Li-ion^{33,34}

Power Cord

2-wire plug - 1.0m (Japan only)³²
3-wire plug - 1.0m³²
3-wire plug - 1.8m³²
Duckhead power cord - 1.0m³²
Duckhead power cord - 1.8m³²

Battery Life

Up to 12 hours35

- 32. Availability may vary by country.
- 33. Battery is internal and not replaceable by customer. Serviceable by warranty.
- 34. Supports HP Fast Charge with 65W AC Adapter.
- 35. Windows 10 MM14 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See www.bapco.com for additional details.

WEIGHTS & DIMENSIONS

Weight

Starting at 2.94 lb (non-touch); Starting at 3.32 lb (touch)³⁶ Starting at 1.33 kg (non-touch); Starting at 1.51 kg (touch)³⁶

Dimensions (w x d x h)

12.22 x 9.03 x 0.7 in 31.04 x 22.93 x 1.77 cm

36. Weight will vary by configuration.



Features

PORTS/SLOTS

Ports

1 USB Type-C™ (Alt Mode)

1 USB 3.1 Gen 1

1 USB Type-C™ (charging)

1 HDMI 2.037

1 RJ-45 / Ethernet

1 docking connector

1 headphone/microphone combo

1 AC power

37. HDMI cable sold separately.

ENVIRONMENTAL & INDUSTRY

Environmental Data	Eco-Label Certifications & declarations	This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks: • IT ECO declaration • US ENERGY STAR® • EPEAT [®] Gold registered in the United States. See http://www.epeat.net for registration status in your country. Search keyword <i>generator</i> on HP's 3rd party option store for solar energy accessory at http://www.hp.com/go/options			
	System Configuration The configuration used for the Energy Consumption and De data for the Notebook model is based on a "Typically Confi				
	Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz	
	Normal Operation (Short idle)	6.54 W	7.12 W	7.20 W	
	Normal Operation (Long idle)	4.42 W	5.05 W	4.88 W	
	Sleep	0.92 W	0.94 W	0.83 W	
	Off	0.49 W	0.50 W	0.49 W	
		offered within the model	ata listed is for an ENERGY s family. HP computers mark the applicable U.S. Enviror	ed with the ENERGY STAR®	

(EPA) ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® compliant configurations, then energy efficiency data listed is for

Features

Heat Dissipation*	115VAC, 60Hz	230VAC, 50	AC, 50Hz 100VAC, 60I	
Normal Operation (Short idle)	·		r	25 BTU/hr
Normal Operation (Long idle)	15 BTU/hr	17 BTU/h	r	17 BTU/hr
Sleep	3 BTU/hr	3 BTU/hr		3 BTU/hr
Off	2 BTU/hr	2 BTU/hr		2 BTU/hr
	*NOTE: Heat dissipation is service level is attained for		on the measu	red watts, assuming
Declared Noise	Sound Power			
Emissions (in accordance with ISO 7779 and ISO 9296)	(L _{pAm} , d		_{Am} , decibels)	
Typically Configured – Idle	2.5		14.9	
Fixed Disk – Random writes	3.4			26.7
Longevity and Upgrading "This product can be upgraded, possibly extending its useful life years. Upgradeable features and/or components contained in t include: Spare parts are available throughout the warranty period and o years after the end of production.				
Batteries	"This battery(s) in this product comply with EU Directive 2006/66/EC			
l l	Batteries used in the product do not contain: Mercury greater the1ppm by weight Cadmium greater than 20ppm by weight			
	Mercury greater the1ppm l	by weight		

Features

Additional Information
Packaging Materials



Features

Packaging Usage	 HP follows these guidelines to decrease the environmental impact of product packaging: Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials. Eliminate the use of ozone-depleting substances (ODS) in packaging materials. Design packaging materials for ease of disassembly. Maximize the use of post-consumer recycled content materials in packaging materials. Use readily recyclable packaging materials such as paper and corrugated materials. Reduce size and weight of packages to improve transportation fuel efficiency. Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.
End-of-life Management and Recycling	Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner. The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.
HP, Inc. Corporate Environmental Information	For more information about HP's commitment to the environment: Global Citizenship Report http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html Eco-label certifications http://www8.hp.com/us/en/hp- information/environment/ecolabels.html ISO 14001 certificates: http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842 http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf

SERVICE AND SUPPORT

HP Services offers 3-year and 1-year limited warranties and 90 day software limited warranty options depending on country. Batteries have a default one year limited warranty except for Long Life batteries which will have same 1-year or 3-year limited warranty as the platform. On-site service and extended coverage is also available. HP Care Pack Services are optional extended service contracts that go beyond the standard limited warranties. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at: http://www.hp.com/go/cpc³⁸



Features

38. HP Care Packs are sold separately. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit www.hp.com/go/cpc. HP services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.



Technical Specifications

SYSTEM UNIT

Stand-Alone Power Nominal Operating 19V

Requirements (AC Power) Voltage

> **Average Operating Power** Win 10 **Integrated Graphics** 15W

Max Operating Power UMA < 45W

Temperature Operating 32° to 95° F (0° to 35° C) (not writing optical)

41° to 95° F (5° to 35° C) (writing optical)

-4° to 140° F (-20° to 60° C) Non-operating

Relative Humidity Operating 10% to 90%, non-condensing

> Non-operating 5% to 95%, 101.6° F (38.7° C) maximum wet bulb temperature

Shock Operating Half sine wave shock: 40G. 2ms duration

Half sine wave shock: 240G, 2ms duration Non-operating

Random Vibration Operating Nominal 1.043 grms

> Non-operating Nominal 3.5 grms

Altitude (unpressurized) **Operating** -50 to 10,000 ft (-15.24 to 3,048 m)

> Non-operating -50 to 40,000 ft (-15.24 to 12,192 m)

Planned Industry Standard

Certifications

UL Yes CSA Yes

FCC Compliance Yes **ENERGY STAR®** Yes **EPEAT®** Yes Yes Australia /

NZ A-Tick Compliance

CCC Yes Japan VCCI Compliance Yes KC Yes **BSMI** Yes **CE Marking Compliance** Yes

GOST Yes

Saudi Arabian Compliance TRSE owned

(ICCP)

UKRSERTCOMPUTER



Technical Specifications

DISPLAYS*

Panel LCD 13.3 inch FHD (1920x1080) Anti-Glare WLED UWVA 45% cg 220nits eDP slim NB **Outline Dimensions (W x H)** 300.56 x 187.77 max. **Active Area** 293.76 x 165.24 typ.

Weight 260g max.

Diagonal Size 13.3"

Thickness 3.0mm max.
Interface eDP 1.2 (2 lane)

Surface Treatment IPS
Touch Enabled Yes

Contrast Ratio 600:1 (typ) - AG

Refresh Rate 60Hz

Brightness 220 nits typical (Panel Only)

Pixel Resolution 1920 x 1080 (FHD)

Format RGB
Backlight LED
Color Gamut Coverage 0.45

Color Depth 6 bits (Hi FRC @ system GFX output 8bits)

Viewing Angle UWVA 85/85/85

Panel LCD 13.3 inch FHD (1920x1080) Anti-Glare WLED UWVA 72% cg 400nits eDP 1.3+PSR ultraslim NB Outline Dimensions (W x H) 300.172 x 187.42 max. Active Area 293.472 x 165.078

Weight 170g max.

Diagonal Size 13.3"

Thickness 2.0mm / 2.2mm (PCB) max. **Interface** eDP 1.3 w/ PSR (2 lane)

Surface Treatment IPS
Touch Enabled No

Contrast Ratio 600:1 (typ - AG)

Refresh Rate 60Hz

Brightness 400 nits typical (Panel Only)

Pixel Resolution 1920 x 1080 (FHD)

Format RGB
Backlight LED
Color Gamut Coverage 0.72

Color Depth 6 bits + Hi FRC **Viewing Angle** UWVA 85/85/85/85

*NOTE: All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.



Technical Specifications

STORAGE¹

SSD 128 GB 2280 M2 SATA-3 TLC Drive Weight 0.02 lb (10 g)

Capacity 128 GB

Height 0.09 in (2.3 mm)
Width 0.87 in (22 mm)
Interface ATA-8, SATA 3.0
Maximum Sequential Read Up To 520 MB/s
Maximum Sequential Write Up To 450 MB/s
Logical Blocks 250.069.680

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]

Security Features DIPM; TRIM; DEVSLP

Capacity 256 GB

Height 0.09 in (2.3 mm)
Width 0.87 in (22 mm)
Interface PCIe NVMe Gen3X4
Maximum Sequential Read Up To 1700 MB/s
Maximum Sequential Write Up To 600 MB/s
Logical Blocks 500.118,192

Operating Temperature

32° to 158°F (0° to 70°C) [ambient temp]

Security Features

 SSD 256 GB 2280 M2 SATA-3 Self Drive Weight
 0.02 lb (10 g)

 Encrypted OPAL2 TLC
 Capacity
 256 GB

Height 0.09 in (2.3 mm)
Width 0.87 in (22 mm)
Interface ATA-8, SATA 3.0
Maximum Sequential Read Up To 530 MB/s
Maximum Sequential Write Up To 515 MB/s
Logical Blocks 500.118,192

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]

Security Features DIPM; TRIM; DEVSLP

Technical Specifications

256 GB 2280 PCIe NVMe Value Solid State Drive
 Drive Weight
 0.02 lb (10 g)

 Capacity
 256 GB

Height 0.09 in (2.3 mm)

Width 0.87 in (22 mm)

Interface PCIe NVMe Gen3X4

Maximum Sequential Read Up To 1700 MB/s

Maximum Sequential Write Up To 600 MB/s

Logical Blocks 500,118,192

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]

Security Features TRIM; L1.2

SSD 360 GB 2280 PCIe-3x4 NVMe Drive Weight TLC

 Drive Weight
 0.02 lb (10 g)

 Capacity
 360 GB

Height 0.09 in (2.3 mm)
Width 0.87 in (22 mm)
Interface PCIe NVMe Gen3X4
Maximum Sequential Read Up To 1700 MB/s
Maximum Sequential Write Up To 600 MB/s
Logical Blocks 703,282,608

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]

Security Features TRIM; L1.2

SSD 512 GB 2280 M2 PCIe-3x4 SS Drive Weight

NVMe TLC

S Drive Weight 0.02 lb (10 g) **Capacity** 512 GB

Height 0.09 in (2.3 mm)

Width 0.87 in (22 mm)

Interface PCIe NVMe Gen3X4

Maximum Sequential Read Up To 2600 MB/s

Maximum Sequential Write Up To 1400 MB/s

Logical Blocks 1,000,215,216

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]

Security Features TRIM; L1.2

Technical Specifications

SSD 512 GB 2280 M2 SATA-3 TLC Drive Weight 0.02 lb (10 g) **FIPS Capacity F13 CB**

Capacity 512 GB

Height0.09 in (2.3 mm)Width0.87 in (22 mm)InterfaceACS-3, SATA 3.2Maximum Sequential ReadUp To 530 MB/sMaximum Sequential WriteUp To 400 MB/sLogical Blocks1,000,215,216

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]

Security Features DIPM; TRIM; DEVSLP

SSD 512 GB 2280 PCIe-3x4 NVMe Drive Weight 0.02 lb (10 g)
Self Encrypted OPAL2 TLC Capacity 512 GB

Height0.09 in (2.3 mm)Width0.87 in (22 mm)InterfacePCIe NVMe Gen3X4Maximum Sequential ReadUp To 2900 MB/sMaximum Sequential WriteUp To 1400 MB/sLogical Blocks1,000,215,215

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]

Security Features TRIM; L1.2

1. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10) is reserved for system recovery software.



Technical Specifications

NETWORKING/COMMUNICATIONS

Realtek

802.11a/b/g/n/ac (2x2) WiFi and Bluetooth® 4.2 Combo¹ Wireless LAN Standards IEEE 802.11a

IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac

Interoperability Wi-Fi certified

Frequency Band 802.11b/g/n

• 2.402 – 2.482 GHz

802.11a/n

4.9 – 4.95 GHz (Japan)
5.15 – 5.25 GHz
5.25 – 5.35 GHz
5.47 – 5.725 GHz
5.825 – 5.850 GHz

Data Rates • 802.11b: 1, 2, 5.5, 11 Mbps

802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz)

802.11ac: MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz, and 80MHz)

Modulation Direct Sequence Spread Spectrum

BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM

• IEEE and Wi-Fi® compliant 64 / 128 bit WEP encryption for a/b/g mode

only

• AES-CCMP: 128 bit in hardware

• 802.1x authentication

• WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.

WPA2 certificationIEEE 802.11i

Cisco Certified Extensions, all versions through CCX4 and CCX Lite

WAPI

Network Architecture

Models

Ad-hoc (Peer to Peer)

Infrastructure (Access Point Required)

Roaming IEEE 802.11 compliant roaming between access points

Output Power² • 802.11b: +14dBm minimum

802.11g: +12dBm minimum802.11a: +12dBm minimum

802.11n HT20(2.4GHz): +12dBm minimum
802.11n HT40(2.4GHz): +12dBm minimum
802.11n HT20(5GHz): +10dBm minimum
802.11n HT40(5GHz): +10dBm minimum
802.11ac VHT80(5GHz): +10dBm minimum

Power Consumption • Transmit mode 2.0 W

• Receive mode 1.6 W



Technical Specifications

• Idle mode (PSP) 180 mW (WLAN Associated)

• Idle mode 50 mW (WLAN unassociated)

• Connected Standby 10mW

Radio disabled 8 mW

Power Management ACPI compliant power management

802.11 compliant power saving mode

Receiver Sensitivity⁴ 802.11b, 1Mbps: -93.5dBm maximum

802.11b, 11Mbps: -84dBm maximum 802.11a/g, 6Mbps: -86dBm maximum 802.11a/g, 54Mbps: -72dBm maximum 802.11n, MCS07: -67dBm maximum 802.11n, MCS15: -64dBm maximum 802.11ac, MCS0: -84dBm maximum 802.11ac, MCS9: -59dBm maximum

Antenna type High efficiency antenna with spatial diversity, mounted in the display

enclosure

Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications

Form Factor PCI-Express Half-MiniCard

Dimensions Type 2230 : 2.3 x 22.0 x 30.0 mm

 Weight
 Type 2230 : 2.8g

 Operating Voltage
 3.3v +/- 9%

Temperature Operating 14° to 158° F (-10° to 70° C)

Non-operating -40° to 176° F (-40° to 80° C)

Humidity Operating 10% to 90% (non-condensing)

Non-operating 5% to 95% (non-condensing)

Altitude Operating 0 to 10,000 ft (3,048 m)

Non-operating 0 to 50,000 ft (15,240 m)

LED Activity LED Amber – Radio OFF;

LED White - Radio ON

HP Integrated Module with Bluetooth 4.0/4.1/4.2 Wireless Technology

Bluetooth Specification 4.0/4.1/4.2 Compliant **Frequency Band** 2402 to 2480 MHz

Number of Available Legacy : 0~79 (1 MHz/CH)
Channels BLE : 0~39 (2 MHz/CH)

Data Rates andLegacy: 3 Mbps data rate; throughput up to 2.17 Mbps **Throughput**BLE: 1 Mbps data rate; throughput up to 0.2 Mbps

Legacy: Synchronous Connection Oriented links up to 3, 64 kbps, voice

channels

Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps

asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)



Technical Specifications

Transmit Power The Bluetooth component shall operate as a Class II Bluetooth device with

a maximum transmit power of + 4 dBm for BR and EDR.

Power Consumption Peak (Tx) 330 mW

Peak (Rx) 230 mW

Selective Suspend 17 mW

Electrical Interface USB 2.0 compliant

Bluetooth Software

Supported

Microsoft Windows Bluetooth Software

Power Management Microsoft Windows ACPI, and USB Bus Support **Certifications** FCC (47 CFR) Part 15C, Section 15.247 & 15.249

Power Management Certifications ETS 300 328, ETS 300 826 Low Voltage Directive IEC950

UL, CSA, and CE Mark

Bluetooth Profiles
Supported

BT4.1-ESR 5/6/7 Compliance

LE Link Layer Ping LE Dual Mode

LE Link Layer

LE Low Duty Cycle Directed Advertising LE L2CAP Connection Oriented Channels

Train Nudging & Interlaced Scan

BT4.2 ESR08 Compliance

LE Secure Connection- Basic/Full LE Privacy 1.2 -Link Layer Privacy

LE Privacy 1.2 - Extended Scanner Filter Policies

LE Data Packet Length Extension

FAX Profile (FAX)

Basic Imaging Profile (BIP)2 Headset Profile (HSP) Hands Free Profile (HFP)

Advanced Audio Distribution Profile (A2DP)

- 1. Wireless access point and Internet service is required. Availability of public wireless access point is limited. The specifications for the 802.11ac WLAN are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ac WLAN devices
- 2. The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.
- 3. Check latest software/driver release for updates on supported security features.
- 4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).



Technical Specifications

HP lt4132 LTE/HSPA+ 4G Technology/Operating Mobile Broadband⁵

bands

LTE: 2100 (Band 1), 1900 (Band 2), 1800 (Band 3) MHz,

850 (Band 5), 2600 (Band 7), 900 (Band 8) MHz,

800 (Band 20), 700 (Band 28) MHz.

HSPA+: 2100 (Band 1), 1900 (Band 2), 850 (Band 5), 900 (Band 8) MHz E-GPRS: 1900 (Band 2), 1800 (Band 3), 850 (Band 5), 900 (Band 8) MHz

Wireless protocol

standards

3GPP Release 10 LTE Specification CAT.4, 20MHz BW

WCDMA R99, 3GPP Release 5, 6, 7 and 8 UMTS Specification

E-GPRS: Class B, Multi-slot class 12, coding schemes CS1 - CS4

and MSC1 - MSC9

GPS Standalone, A-GPS (MS-B and LTO)

GPS bands 1575.42 MHz ± 1.023 MHz, GLONASS 1596-1607MHz

LTE: 150 Mbps (Download), 50 Mbps (Upload) Maximum data rates

> DC-HSPA+: 42 Mbps (Download), 5.76 Mbps (Upload) HSPA+: 21Mbps (Download), 5.76 Mbps (Upload) EDGE: 236.8 kbps (Download), 236.8 kbps (Upload) GPRS: 85.6 kbps(Download), 85.6 kbps (Upload)

Maximum output power

LTE: 23 dBm

HSPA+: 23.5 dBm

E-GPRS 1900/1800: 26 dBm E-GPRS 900/850: 27 dBm GPRS 1900/1800: 29.5 dBm GPRS 900/850: 32.5 dBm

Maximum power consumption

LTE: 1,200 mA (peak); 900 mA (average) HSPA+: 1,100 mA (peak); 800 mA (average) E-GPRS: 2,600 mA (peak); 500 mA (average)

Form Factor

M.2, 3042-S3 Key B

Weight

6 g

Dimensions

42 x 30 x 2.3 mm

(Length x Width x

Thickness)

5. Mobile Broadband is an optional feature. Connection requires wireless data service contract, network support, and is not available in all areas. Contact service provider to determine the coverage area and availability. Connection speeds will vary due to location, environment, network conditions, and other factors. 4G LTE not available on all products or in all countries.

Technical Specifications

HP lt4210 4G Module⁶

Technology/Operating

bands

FDD LTE: 2100 (Band 1), 1900 (Band 2), 1800 (Band 3),

1700/2100 (Band 4), 850 (Band 5), 2600 (Band 7), 900 (Band 8), 1400

(Band 11), 700 (Band 12 lower), 700 (Band 13 upper), 700 (Band 17 lower), 850 (Band 18 lower), 850 (Band 19 upper), 800 (Band 20), 1400 (Band 21), 850 (Band 26), 700 (Band 28), 700 (Band 29 RX only), 2300 (Band 30),

2100 (Band 66).

TDD LTE: 2600 (Band 38), 1900 (Band 39), 2400 (Band 40), 2500 (Band 41).

HSPA+: 2100 (Band 1), 1900 (Band 2), 1700/2100 (Band 4),

850 (Band 5), 900 (Band 8) MHz

Wireless protocol

standards

3GPP Release 11 LTE Specification CAT.9, DL 60MHz BW throughput up to

450Mbps; UL 20MHz throughput up to 50Mbps

WCDMA R99, 3GPP Release 5, 6, 7 and 8 UMTS Specification

GPS Standalone, A-GPS (MS-A, MS-B and XTRA)

GPS bands 1575.42 MHz ± 1.023 MHz, GLONASS 1596-1607MHz, Beidou 1561.098

MHz

Maximum data rates LTE: 450 Mbps (Download), 50 Mbps (Upload)

DC-HSPA+: 42 Mbps (Download), 5.76 Mbps (Upload) HSPA+: 21 Mbps (Download), 5.76 Mbps (Upload)

Maximum output power LTE: 23 dBm

HSPA+: 23.5 dBm

Maximum powerLTE: 1,200 mA (peak); 900 mA (average)consumptionHSPA+: 1,100 mA (peak); 800 mA (average)

Form Factor M.2, 3042-S3 Key B

Weight 5.8 g

Dimensions 42 x 30 x 2.3 mm

(Length x Width x

Thickness)

6. Mobile Broadband is an optional feature. Connection requires wireless data service contract, network support, and is not available in all areas. Contact service provider to determine the coverage area and availability. Connection speeds will vary due to location, environment, network conditions, and other factors. 4G LTE not available on all products or in all countrie

Technical Specifications

POWER

AC Adapter 65 Watt nPFC Dimensions **USB** type C

Weight

Input

74x74x28.5mm unit: 245q +/- 10q

Input Efficiency

81.5% min at 115 Vac/ 230Vac @ 5V/3A 86.7% min at 115 Vac/ 230Vac @ 9V/3A 88% min at 115 Vac/ 230Vac @ 10V/5A 88% min at 115 Vac/ 230Vac @ 12V/5A 89% min at 115 Vac/ 230Vac @ 15V/4.33A 89% min at 115 Vac/ 230Vac @ 20V/3.25A

Input frequency range 47 ~ 63 Hz

Input AC current 1.7 A at 90 VAC and maximum load

Output Output power 65W

> DC output 5V/9V/10V/12V/15V/20V Hold-up time 5ms at 115 Vac input

Output current limit <8.0A

Connector

Environmental Design

Duck head / duck head power cord, without Smart ID DC connector

Operating temperature 32°F to 95°F (0° to 35°C) -4°F to 185°F (-20°to 85°C) Non-operating (storage)

temperature

Altitude 0 to 16,400 ft (0 to 5000m)

Humidity 5% to 95% **Storage Humidity** 5% to 95%

EMI and Safety Certifications

CE Mark - full compliance with LVD and EMC directives

Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B,

FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE.

MTBF - over 100,000 hours at 25°C ambient condition.



Technical Specifications

AC Adapter 45 Watt nPFC Dimensions USB type C™ Weight

 Dimensions
 62.0x62.0x28.5mm

 Weight
 unit: 220g +/- 10g

 Input
 Input Efficiency

Input Efficiency Average Efficiency of 25%, 50%, 75%, 100% load condition with 115Vac/230Vac Spec:5V:

81.5%9V: 86.7%10V: 87.5%12V: 87.8%15V:

87.8%20V:87.8%

Input frequency range 47 ~ 63Hz

Input AC current Max. 1.4 A at 90 Vac

Output Output power 5V/15W

9V/27W 10V/37.5W 12V/45W 15V/45W 20V/45W

DC output 5V / 9V / 10V / 12V / 15V / 20V

Hold-up time 5ms at 115 Vac input

Output current limit <5.0A

Connector USB Type-C™

Environmental Design Operating temperature 32°F to 95°F (0°to 35°C)

Non-operating (storage) -4°F to 185°F (-20° to 85°C)

temperature

Altitude 0 to 16,400 ft (0 to 5000m)

Humidity 20% to 95% **Storage Humidity** 10% to 95%

Safety Certifications CE Mark - full compliance with LVD and EMC directives

Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B,

FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE. MTBF - over 200,000 hours at 25°C ambient condition.



Technical Specifications

HP 45W Smart AC adapter Dimensions 3.74 x 1.57 x 1.04 in (9.5 x 4.0 x 2.65 cm)

Weight 0.386 lb (175g) max

Input Input Efficiency 87.74% at 115Vac and 88.4% at 230Vac

Input frequency range 47 ~ 63Hz

Input AC current 1.4 A at 90 Vac

Output Output power 45W

DC output 19.5V

Hold-up time 5 msec at 115 VAC input

Output current limit <8.0A

Connector 4.5mm Barrel Type, 3 pin/grounded, mates with interchangeable cords

Environmental Design Operating temperature 32° to 95° F (0° to 35° C)

Non-operating (storage) -4° to 185° F (-20° to 85° C)

temperature

Altitude 0 to 16,400 ft (0 to 5000m)

Humidity 20% to 95% **Storage Humidity** 10% to 95%

Safety Certifications CE Mark - full compliance with LVD and EMC directives

Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B,

FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE. MTBF - over 200,000 hours at 25°C ambient condition.

HP 65W Smart AC adapter Dimensions 107.0x47.0x30.0mm

Weight unit: 250g +/- 10g

Input Input Efficiency 88.0 % at 115 Vac and 89.0 % at 230 Vac

Input frequency range 47 ~ 63 Hz

Input AC current Max. 1.7 A at 90 Vac

Output Output power 65W

DC output 19.5V

Hold-up time 5ms at 115 Vac input

Output current limit <11.0A

Connector 4.5mm Barrel Type

Environmental Design Operating temperature 32°F to 95°F (0°to 35°C)

Non-operating (storage) -4°F to 185°F (-20° to 85°C)

temperature

Altitude 0 to 16,400 ft (0 to 5000m)

Humidity 20% to 95% **Storage Humidity** 10% to 95%

Safety Certifications CE Mark - full compliance with LVD and EMC directives

Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B,

FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE. MTBF - over 200,000 hours at 25°C ambient condition.

Technical Specifications

HP 65W EM Smart AC adapter

 Dimensions
 102x55x30mm

 Weight
 270g +/- 10g

Input Input Efficiency 87% min at 115V/230V

Input frequency range 47 to 63 Hz

Input AC current 1.7 A at 90 VAC and maximum load

Output DC output 65W(19.5V/3.33A)

Hold-up time 5 msec at 115 VAC input

Output current limit <11A, Over voltage protection- 29V max

automatic shutdown

Connector 4.5

4.5mm Barrel Type, 3 pin/grounded, mates with interchangeable cords

Environmental Design Operating temperature 0° to 35° C
Non-operating (storage) -20° to 85° C

temperature

Altitude 0 to 5,000 m
Humidity 0% to 95%
Storage Humidity 0% to 95%

Safety Certifications CE Mark - full compliance with LVD and EMC directives

Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B,

FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE. MTBF - over 200,000 hours at 25°C ambient condition.

Battery TT 3 Cell WHr 56 Long Life -PL **Dimensions** $(H \times W \times L)$

L 281.7mm x W 79.65mm x H 7.15mm

Weight

193 +/- 10g

Cells/Type 3cell Lithium-Ion Polymer cell / P604883A1

Voltage 11.55V/

Energy Amp-hour capacity 4.113Ah/ 4.330Ah

Watt-hour capacity 50 Wh

Temperature Operating (Charging) 0° to 50° C

Operating (Discharging) -10° to 60° C

Fuel Gauge LED N/A
Warranty 3 years

Optional Travel Battery .

Available

No

COUNTRY OF ORIGIN

China



Options and Accessories (sold separately and availability may vary by country)

•		<i>y y</i> .
Туре	Description	Part #
Cases	HP Slim Top Load	F3W16AA
	HP Slim Backpack	F3W15AA
	HP 15.6 Business Top Load	2SC66AA
Docking	HP UltraSlim Docking Station	D9Y32AA
	HP USB-C Universal Dock	1MK33AA
	HP USB-C Dock G4	3FF69AA
	HP Thunderbolt Dock G2	2UK37AA
	HP USB-C Mini Dock	1PM64AA
Input/Output	HP Slim Wireless Keyboard and Mouse	T6L04AA
	HP Slim USB Keyboard and Mouse	T6T83AA
	HP Wireless (Link-5) Keyboard	T6U20AA
	HP Comfort Grip Wireless Mouse	H2L63AA
	HP Ultra Mobile Wireless Mouse	H6F25AA
	HP Wireless Premium Mouse	1JR31AA
	HP USB Premium Mouse	1JR32AA
	HP Elite Presenter Mouse	2CE30AA
	HP USB Travel Mouse	G1K28AA
	HP Stereo 3.5mm Headset	T1A66AA
	HP Stereo USB Headset	T1A67AA
	HP USB-C to USB-A Hub	Z6A00AA
	HP USB-C to DP	N9K78AA
	HP USB-C to VGA	N9K76AA
	HP HDMI to DVI	F5A28AA
	HP HDMI to VGA	H4F02AA
Power	HP 65W Slim AC Adapter	H6Y82AA
	HP 90W Slim AC Adapter	H6Y83AA
	HP 45W USB-C Power Adapter	1HE07AA
	HP 65W USB-C Power Adapter	1HE08AA
	HP USB-C Notebook Power Bank	2NA10AA
Memory	HP 4GB 2400MHz DDR4 Memory	Z4Y84AA
	HP 8GB 2400MHz DDR4 Memory	Z4Y85AA
	HP 16GB 2400MHz DDR4 Memory	Z4Y86AA
Storage	UD LICE External DVDDW Drive	EDDECAA
Storage	HP USB External DVDRW Drive HP 128GB TLC M.2 SATA-3 SSD	F2B56AA
		2JB95AA
	HP 256GB M2 PCIe NVME SSD TLC (2280)	1FU87AA
	HP 512GB M2 PCIe NVME SSD TLC 2280)	1FU88AA



Options and Accessories (sold separately and availability may vary by country)

Security	HP Docking Station Cable Lock	AU656AA
-	HP Keyed Cable Lock	TOY14AA
	HP Keyed Cable Lock 10mm	T1A62AA
	HP Dual Head Keyed Cable Lock	T1A64AA
UCC	HP USB Collaboration Keyboard	Z9N38AA
	HP Wireless Collaboration Keyboard	Z9N39AA
	HP UC Speaker Phone	K7V16AA
	HP UC Wireless Mono Headset	W3K08AA
	HP UC Wireless Duo Headset	W3K09AA
Displays	HP EliteDisplay E243 23.8-inch Monitor	1FH47AA
	HP EliteDisplay E243i 23.8-inch Monitor	1FH49AA
	HP EliteDisplay E273 27-inch Monitor	1FH50AA
	HP EliteDisplay E273m 27-inch Monitor	1FH51AA



Summary of Changes

Date of change:	Version History:		Description of change:
February 28, 2018	V1 to V2	Update	256 GB 2280 PCIe NVMe Value Solid State Drive features specs added
May 7, 2018	V2 to V3	Update	Display support matrix moved to Display Support section
May 8, 2018	V3 to V4	Added	Environmental tab

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